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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/160,503

09/24/1998

RICHARD D. CAPPELS SR.

P2267/PA1021

6429

7590

04/25/2006

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EXAMINER

TRAN, MYLINH T

ART UNIT

PAPER NUMBER

2179

DATE MAILED: 04/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/160,503

Applicant(s)

CAPPELS ET AL.

Examiner

Mylinh Tran

Art Unit

2179

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 December 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12, 21-32 and 41-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12, 21-32 and 41-51 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's Amendment filed 12/26/05 has been entered and carefully considered. Claims 1, 5-6, 21, 23, 25, 42-43, 48 and 50 have been amended. However, the limitations of the amended claims have not been found to be patentable over prior art of record, therefore, claims 1-12, 21-32 and 41-51 remain rejected under the same ground of rejection as set forth in the Office Action mailed 08/24/05.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-12, 21-32 and 41-51 are rejected under 35 U.S.C. 102(e) as being anticipated by Masuda et al. (Masuda" US 5 978,041).

As per claims 1-2, 21-22, 42 and 43, Masuda teaches a computer implemented method and corresponding system for generating an image on a display, wherein said image includes one or more special windows comprising the steps/means:

a window manager to embed special window information in a video signal (e.g., figures 34-37; col. 34, lines 15-67), comprised of a first color signal, a second color signal, and a third color signal with said first color signal including said special window information (column 7, lines 5-15, level of brightness represent level of color);

wherein said video signal characterizes said image to be generated on said display (e.g., 31 of fig. 34); and said first and second color signals are used to display said special window information on said display (column 28, lines 6-10 and column 40, lines 44-63);

and a window decoder to extract said special window information from said video signal and responsively generate a display control signal, wherein said display control signal enables special processing of portions of said video signal associated with said one or more special windows, and wherein said special processing results in said one or more special windows being produced on said display with one or more display attributes that differ from non-processed portions of said video signal (e.g., figures 33 and 37; col. 32, line 65 - col. 33, line 55 and col. 34, lines 35-67).

As per claims 3 and 23, Masuda teaches the step of extracting being performed by a window decoder implemented as an application-specific integrated circuit (e.g., figures 33 and 37; col. 32, line 65 - col. 33, line 55 and col. 34, lines 35-67).

As per claims 4 and 24, Masuda further teaches a target area in said special windows to be specially processed in response to said display control signal, wherein said special processing results in said target area being produced on said display with one or more display attributes that differ from non-target areas; and a video interface to transmit data including said special window information to said display (e.g., figures 33 and 37; col. 32, line 65 - col. 33, line 55 and col. 34, lines 35-67).

As per claims 5 and 25, Masuda disclose depicting pixels in said display and a third color signal serving as a video clock signal for said special window information (column 2, lines 37-52 and column 15, lines 5-19).

As per claims 6 and 26, Masuda further teaches key signals including a pattern of bits of said special window information to encode a target area position, and corresponding to a pattern of said pixels depicted in said display (e.g., figures 33 and 37; col. 32, line 65 - col. 33, line 55 and col. 34, lines 35-67).

As per claims 7 and 27, Masuda shows pixel pairs in said display each member pixel of said pixel pairs being proximately located (column 2, lines 37-50), said pixel pairs being colored according to said first color signal, said second color signal, and said third color signal in an additively complementary manner to visually approximate a single pixel of a mixed color (column 28-lines 6-36 and column 40, lines 43-63).

As per claims 8, 28 and 41, Masuda teaches: a start sequence indicating a beginning of said key signals; a code sequence distinguishing said key signals

from said data; a horizontal offset sequence indicating a boundary of said target area relative to a horizontal position of said key signals; a vertical offset sequence indicating a second boundary of said target area relative to a vertical position of said key signals; a CRC checksum verifying said horizontal offset sequence and said vertical offset sequence; and a stop sequence indicating an end of said key signal (e.g., figures 53 and 56; col. 39, lines 49-60 and col. 40, line 54 - col. 41, line 3).

As per claims 9 and 29, Masuda further teaches non-differential key signal data indicating said start sequence and said stop sequence; and differential key signal data indicating remaining components of said key signals (e.g., figures 53 and 56, col. 39, lines 49-60 and col. 40, line 54 - col. 41, line 3).

As per claims 10 and 30, Masuda shows a number sequence indicating a number of special windows (figures 34-36, images (31)).

As per claims 11 and 31, Masuda teaches the sequences that the special windows are displayed at col. 32, line 65 - col. 33, line 55, col. 34, lines 35-67, col. 39, lines 49-60 and col. 40, line 54 - col. 41, line 3. Masuda also discloses in detail a shape sequence indicating a shape of said target area when said target area is not rectangular (figures 34-36, images A, B, C of 31).

As per claims 12 and 32, Masuda teaches the sequences that the special windows are displayed at col. 32, line 65 - col. 33, line 55, col. 34, lines 35-67, col. 39, lines 49-60 and col. 40, line 54 - col. 41, line 3. Masuda also discloses in detail a selection sequence indicating a selection from among a plurality of

available special processes (figures 34-36, images A, B, C of 31 and column 34, lines 15-35).

As per claims 44-47, Masuda teaches the special window information is embedded in the video signal so as to be visually indistinctive to a viewer (e.g., figures 34-37; col. 34, lines 15-67).

As per claims 48 and 50, Masuda teaches receiving a video signal that represents said image to be generated on said display (e.g., figures 34-37; col. 34, lines 15-67), wherein said video signal is comprised of a first color signal, a second color signal, and a third color signal with said first color signal including at least one key signal embedded therein (column 7, lines 5-15, level of brightness represent level of color);

extracting said at least one key signal from said video signal;

selectively generating a display control signal in response to said at least one key signal, wherein said display control signal indicates a target area within said one or more special windows is to be specially processed in order to display said target area with one or more display attributes that differ from non-target areas (e.g., 31 of fig. 34); and generating an output signal based on said video signal and the presence or absence of said display control signal, wherein said output signal produces said image including said one or more special windows on said display and said first and second color signals are used to display said at least one key signal to be displayed on said display (e.g., figures 33 and 37; col. 32, line 65 - col. 33, line 55 and col. 34, lines 35-67).

As per claims 49 and 51, According to Masuda in figures 3 and 4, it is inherent that when a special window is covered by another window, the step of special processing is disable.

Response to Arguments

Applicant argues Masuda does not teach or suggest embed special window information in one color signal in the video signal neither embed at least one key signal in a color signal in the video signal. However, Masuda teaches the feature at column 6, lines 60-67 "a computer signal and a television signal are inputted, for displaying then at an optimum brightness respectively. By doing this, the brightness of an output image of the present invention which accomplished the aforementioned first object can be adjusted and strengthened".

Applicant also argues Masuda does not teach or suggest using the color signal that includes the special window information and another color signal to display the special window information on the display neither using the color signal that includes the at least one key signal with another color signal to display the at least one key signal on the display. However, Applicant's attention is directed to column 27, line 60 through column 28, line 10 "a computer signal, television signal, or high definition signal is inputted, each signal can be displayed at an optimum brightness... a constitution of only one channel of video circuit is described. However, in the case of a color display device, it is desirable to

provide three channels of R, G, and B of video circuits having the
aforementioned constitution”.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension
of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire
THREE MONTHS from the mailing date of this action. In the event a first reply
is filed within TWO MONTHS of the mailing date of this final action and the
advisory action is not mailed until after the end of the THREE-MONTH
shortened statutory period, then the shortened statutory period will expire on
the date the advisory action is mailed, and any extension fee pursuant to 37
CFR 1.136(a) will be calculated from the mailing date of the advisory action. In
no event, however, will the statutory period for reply expire later than SIX
MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications
from the examiner should be directed to Mylinh Tran. The examiner can
normally be reached on Mon - Thu from 7:00AM to 3:00PM at 571-272-4141.

If attempts to reach the examiner by telephone are unsuccessful, the
examiner's supervisor, Weilun Lo, can be reached at 571-272-4847.

The fax phone numbers for the organization where this application or
proceeding is assigned are as follows:

571-273-8300

Art Unit: 2179

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mylinh Tran

Art Unit 2179


WEILUN LO
SUPERVISORY PATENT EXAMINER